



I BT03 Rec'd PCT/PTO 0.2 FEB 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re Applicant:**

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AVERBUCH et al

ପରିବାର

Serial No.: 10/518,766

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Filed: 21 DEC 2004

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## For: Method Of Transmitting Data Using Space Time Block Codes

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## Group Art Unit:

Attorney Docket No.: 27/243

Examiner:

**Commissioner of Patents and Trademarks  
Alexandria, VA 22313-1450**

## INFORMATION DISCLOSURE STATEMENT

Siri

Enclosed is PTO Form 1449 which lists citations which may be material to the patentability of the above-identified application.

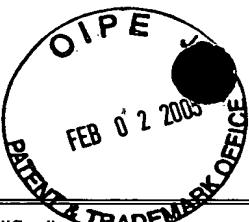
These are being submitted in compliance with the duty of disclosure defined in 37 C.F.R. 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement Under 37 C.F.R. 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

~~Mark M. Friedman  
Attorney for Applicant  
Registration No. 33,883~~

Date: January 30, 2005



Sheet 1 of 2

Form PTO-1449 (Modified)				Atty. Docket No. 27/243	Application No. 10/518,766		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)				Applicant: AVERBUCH ET AL			
				Filing Date: 21 DEC 2004	Group Art Unit:		
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA		6,185,258	Feb 01	Alamouti			
AB							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AC							YES      NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AD		"NONCOMMUTATIVE RINGS" Herstein. The Carus Mathematical Monographs, Number Fifteen					
AE		"A Simple Transmit Deversity Technique For Wireless Communications" Alamouti; IEEE Journal on Select Areas In Communications Vol 16 No.8 October 1998					
AF		"A Differential Detection Scheme for Transmit Deversity" Tarokh; IEEE Journal on Select Areas In Communications Vol 18 No.7 July 2000					
AG		"Space-Time codes for High Data Rate Wireless Communication: Performance Criterion and Code Construction" Tarokh et al; IEEE Transactions on Information Theory Vol 44 No.2 July 1998					
AH		" Space Time Block codes from orthogonal designs" Tarokh et al; IEEE Trans Info theory Vol 45, No.5 pp1456-1467, July 1999					
AI		Hochwald et al; "Unitary Space Time modulation for Multiple Antenna Communications in Rayleigh Flat Fading" IEEE Transactions on Information Theory , Mar 2000					
AJ		Hochwald et al ; "Differential Unitary space time modulation" IEEE Trans. Comm. Vol 48, pp 2041-2052 December 2000					
AK		Shokrollahi et al; Representation theory for high rate multiple antenna code design" IEEE Trans. Inform Theory , vol. 47, no.6 pp 2335-2367 September 2001					
AL		Hughes; "Differential space-time modulation " IEEE trans inform. Theory Vol.46 pp 2567-2578 Nov. 2000					
AM		Han et al; "Unitary constellations with large diversity sum and good diversity product" Department of Mathematics Univ; of Notre Dame Oct 2002					
EXAMINER			DATE CONSIDERED				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							



Sheet 2 of 2

Form PTO-1449 (Modified)			Atty. Docket No. 27/243		Application No. 10/518,766		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(USE SEVERAL SHEETS IF NECESSARY)</i>			Applicant: AVERBUCH ET AL				
			Filing Date: 21 DEC 2004		Group Art Unit:		
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							
BB							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BC							YES      NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BD		"The Finite Inner Automorphism Groups Of Division Rings" Shirvani; Math Proc. Camb. Phil. Soc. Vol. 118 pp.207-213, 1995					
BE		"On Limits Of Wireless Communications In A Fading Environment When Using Multiple Antennas" Foschini et al; Wireless Personal Communications 6: 311-335 1998					
BF		Amitsur; "Finite Subgroups of Division Rings" Trans, Amer. Math. Soc. (1955) 361-386 .					
BG							
BH							
EXAMINER			DATE CONSIDERED				
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